

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM5	Sample Date:	11/2/10	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2010					Sampled By 2:	JS2
						Sampled By 3:	RD

### Well Information:

Well Total Depth (TD)	445	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	424	Feet to	444	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	434	ft
		Tubing Type:	Non-dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1050	Weather:	Air Temp	49	(°F)	Conditions:	Sunny, Light wind
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	165.8	ft					
Water Column Height (TD-DTW):	279.2	ft					
Water volume = $\pi r^2 h$ (cf)	230.66	gallons					
3 Well Volumes:	691.97	gallons					

### Purging:

Purge Date	11/2/10	Purge Time Begin	1050	Low Flow Pump Controller Settings:	Charge Time	8	Exhaust Time	25
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10
Volume Purged Prior to Sampling:	4.25	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/2/10
					Meter Type(3):		Meter Calibration Date:	

### Field Stabilization Measurements:

Sample ID	Purge Date	Time (min.)	Purge Rate (ml/min)	Purge Rate (gal/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments
UM5	11/02/10	1100	200		14.03	0.397	3.68	8.55	119.0	8.20	165.60	
		1103	200		13.97	0.398	2.28	8.56	115.2	9.99	165.13	Maxed out Turb
		1106	200		14.19	0.467	2.16	8.40	74.5	9.99	167.51	Maxed out Turb
		1109	200		14.3	0.526	1.87	8.19	9.4	9.99	167.90	Maxed out Turb
		1115	200		14.49	0.563	11.9	8.06	-118.9	9.99	168.69	Maxed out Turb
		1117	190		14.66	0.564	12.4	8.15	-132.6	9.99	168.83	Maxed out Turb
		1119	175		14.76	0.565	10.2	8.04	-140.6	9.99	168.90	Maxed out Turb
		1121	200		14.48	0.565	9.5	8.01	-145.7	9.99	169.10	Maxed out Turb
		1123	200		14.42	0.563	9.5	8.01	-148	9.65	169.27	
		1126	200		14.45	0.561	8.5	8.01	-151.2	9.7	169.39	
		1128	175		14.37	0.56	7.6	8.01	-155.1	9.45	169.60	
		1130	175		14.47	0.558	7.6	7.99	-161.4	9.65	169.71	
		1132	175		14.66	0.556	7.98	7.99	-164.6	9.32	169.85	
		1134	175		14.89	0.551	8	8	-169.7	9.54	169.96	
1140	175		14.39	0.549	7.92	7.93	-170.3	9.24	170.39			
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	11/2/2010	Sample Collection Time (MT):	1145	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/2/10
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	Yes	QA/QC Type	Duplicate	COC#1:	004	Lab 1	IML
Duplicate Name	PZD5	Duplicate Sample Time	1230	COC#2:	136289	Lab 2	ALS
				COC#3:		Lab 3	

Analysis: Table 1- 4.14, Guide 8, & Radon 222

Comments:  
**OPR reading was very inconsistent so was not factored into stabilization.**

Stabilization Parameters
Temp = +/- 3% in celsius
pH = +/- 0.1 unit
SC = +/- 3% in $\mu\text{mhos/cm}$
ORP/Eh = +/- 10 millivolts
DO = +/- 10% in mg/L
Turbidity = +/- 10% for values > 5

Range values for data entry				
Conductivity Range (mS/cm)	Turbidity (NTU)	Dissolve Oxygen (DO) (mg/L)	Temperature Range (°C)	Ox/Reduc Potential (mV)
Min 0	Min 0	Min 0.01	Min -20	Min -400
Max 2000	Max 1000	Max 2000	Max 80	Max 700